

WHAT IS CLAIMED IS:

1. A variable drive current driver circuit, comprising:
a pair of push-pull circuits for driving a load circuit
complementarily;
5 a first current source circuit for having a bias current flow into said pair of push-pull circuits;
a second current source circuit for having said bias current flow out of said pair of push-pull circuits; and
a control circuit for varying both said bias current flowed by said
10 first current source circuit and said bias current flowed by said second current source circuit according to a control signal.
2. The variable drive current driver circuit according to claim 1, wherein
said first current source circuit comprises a current mirror circuit,
15 and said control circuit controls an input current of said current mirror circuit according to said control signal.
3. The variable drive current driver circuit according to claim 2, wherein
said control circuit controls said input current by controlling a
20 control terminal voltage of a transistor for flowing said input current.
4. The variable drive current driver circuit according to claim 3, wherein
the control of said control terminal voltage is performed by changing,
by a transistor which turns on or off according to said control signal, a
25 magnitude of a load in which a current flowing out of a third current source flows.
5. The variable drive current driver circuit according to claim 1,

wherein

said second current source circuit comprises a transistor, and said control circuit controls a control terminal voltage of said transistor according to said control signal.

5 6. The variable drive current driver circuit according to claim 5, wherein

the control of said control terminal voltage is performed by changing, by a transistor which turns on or off according to said control signal, a magnitude of a load in which a current flowing out of a third current source
10 flows.

7. A variable drive current driver circuit, comprising:
a pair of push-pull circuits for driving a load circuit complementarily;

a first current source circuit for having a first bias current flow into
15 said pair of push-pull circuits;

a second current source circuit for having said first bias current flow out of said pair of push-pull circuits;

a third current source circuit capable of having a second bias current flow into said pair of push-pull circuits;

20 a fourth current source circuit capable of having said second bias current flow out of said pair of push-pull circuits; and

a control circuit for varying both said second bias current flowed by said third current source circuit and said second bias current flowed by said fourth current source circuit according to a control signal.

25 8. The variable drive current driver circuit according to claim 7, wherein

said control circuit has said third current source circuit have said

second bias current flow nor not flow into said pair of push-pull circuit, and
said control circuit has said fourth current source circuit have said
second bias current flow or not flow out of said push-pull circuit.